

	<h2 style="text-align: center;">Mathematics Review Development Committee Meeting</h2> <p><b>Date:</b> April 9, 2018  <b>Time:</b> 9:00 a.m. – 5:00 p.m.  <b>Location:</b> 211 Sower Building  Frankfort, KY</p>
<b>Meeting Purpose:</b>	Revise, review and develop Kentucky Academic Standards in accordance with SB1 (2017).
<b>Meeting Called by:</b>	Krista Hall, KDE
<b>Members:</b>	Forrest Spillman, Bonny Davenport, Jenny Bay Williams, Christine Bickett, Dan McGee, Beverly Rutledge, Amy Rose, Amanda Mullins, Jeanie Reed, Chad White Adam Tilley arrived, Amy Stokes-Levine, Scott Castle  <b>KDE Staff:</b> Erin Chavez, Teresa Emmert, Krista Hall, Renee' Yates

Time	Focus	Lead	Discussion
9:00 am	Welcome	Krista Hall	<b>Welcome</b>
9:01 am	Meeting called to order	Krista Hall	<b>Roll Call</b> <b>Present:</b> Forrest Spillman, Bonny Davenport, Jenny Bay Williams, Christine Bickett, Dan McGee, Beverly Rutledge, Amy Rose, Amanda Mullins, Jeanie Reed, Chad White Adam Tilley arrived 9:25 <b>Absent:</b> Amy Stokes-Levine, Scott Castle <b>Observers:</b> Karen Gettler, Jacki Norman
9:03 am	Approval of the Agenda	Krista Hall	Motion to approve agenda Dan McGee Motion second- Beverly Rutledge All members approved.
9:04 am	Review of Group Norms	Krista Hall	<ul style="list-style-type: none"> <li>• Keep professional learning in mathematics as the primary driver of the experience.</li> <li>• Participate thoughtfully.</li> <li>• Be open to new ways of thinking.</li> <li>• Maintain a sense of humor.</li> <li>• Be respectful of others. <ul style="list-style-type: none"> <li>○ Seek to understand one another's views and values.</li> <li>○ Maintain a positive orientation &amp; presume positive intentions.</li> </ul> </li> </ul>
9:10 am	Overview from previous AP Meetings	Krista Hall	The following subcommittees were formed at the previous AP meeting to address the following components within the standards document <ol style="list-style-type: none"> <li>a. Clarification/Illustration Subcommittees</li> <li>b. Coherence/Vertical Alignment</li> <li>c. Glossary</li> <li>d. Standards for Mathematical Practice</li> <li>e. Vision Statement</li> </ol>

			f. Coding
9:15 am	Overview of goals for the RDC Meeting	Krista Hall	<p>Based on the work completed previously by the AP committee, the following areas need to be reviewed by the RDC.</p> <ul style="list-style-type: none"> <li>a. Review each standard from all domains (K-12)</li> <li>b. Clarify coherence and vertical alignment</li> <li>c. Review vocabulary words for the glossary</li> <li>d. Review clarification/illustration</li> <li>e. Review mathematical practices</li> <li>f. Review front matter for the draft document</li> <li>g. Draft high school conceptual category summary</li> <li>h. Review grade level standards</li> </ul>
9:25 am	Vision Statement review	Krista Hall	<p><b>Vision</b></p> <p>Partners provided feedback/comments on proposed vision statement in the google document.</p>
9:40 am	K-12 Committee work to review/revise standards by domain	Krista Hal	<p>K-12 Standards by domain Card Sort – members worked in small groups to sort cards reviewing/revising standard cards as they discussed progression, clear language, consistency of language/format and complete evidence sheet</p> <p>Domain Team 1-Measurement/Data, Functions, Number &amp; Quantity team: Jeanne Reed, Bonny Davenport, Adam Tilley, Jenny Bay Williams, Forrest Spillman, Chad White</p> <p>Domain Team 2-Operations and Algebraic Thinking, Geometry, Calculus: Beverly Rutledge, Dan McGee, Christine Bickett, Amy Rose, Amanda Mullins</p>
12:01 pm	Lunch/Break		
1:00 pm	Continued K-12 Committee work to review/revise standards by domain	Krista Hall	K-12 work groups continued working through mathematics domains. The group made adjustments for clarity, language consistency, formatting and progression alignment.
4:58 pm	Close of Meeting	Krista Hal	<p>Motion to Adjourn- Forrest Spillman</p> <p>Motion Seconded-Jeanne Reed</p>



## Mathematics Review Development Committee Meeting

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Frankfort, KY

<b>Meeting Purpose:</b>	Revise, review and develop Kentucky Academic Standards in accordance with SB1 (2017).
<b>Meeting Called by:</b>	Krista Hall, KDE
<b>Members:</b>	Forrest Spillman, Bonny Davenport, Jenny Bay Williams, Christine Bickett, Dan McGee, Beverly Rutledge, Amy Rose, Adam Tilley, Jeanie Reed, Chad White, Amy Stokes-Levine, Amanda Mullins, Scott Castle  <b>KDE Staff:</b> Erin Chavez, Teresa Emmert, Krista Hall, Renee' Yates, Kyle Lee, Ali Wright, Jennifer Fraker arrived 9:45

Time	Focus	Lead	Discussion
9:00 am	Welcome	Kyle Lee	<b>Welcome</b>
9:02 am	Meeting called to order	Kyle Lee	<b>Roll Call</b> <b>Present:</b> Forrest Spillman, Bonny Davenport, Jenny Bay Williams, Christine Bickett, Dan McGee, Beverly Rutledge, Amy Rose, Adam Tilley, Jeanie Reed, Chad White, Amy Stokes-Levine, Amanda Mullins <b>Absent:</b> Scott Castle <b>Observers:</b> Karen Guettler arrived 9:31
9:02 am	Approval to amend agenda	Kyle Lee	Move Equity and access in mathematics content, Vocabulary for glossary, clarify coherence and vertical alignment parameters, and Standards content structure to today's agenda from yesterday. Motion to approve – Jenny Bay Williams Motion second – Chad White All members approved.
9:03 am	Approval of the Agenda as amended	Kyle Lee	<ul style="list-style-type: none"> <li>a. Equity and access in mathematics content front matter</li> <li>b. Clarify coherence and vertical alignment parameters</li> <li>c. Glossary</li> <li>d. How to read content standards front matter</li> <li>e. Review/Revise Clarifications/Illustrations</li> <li>f. Standards for mathematical practice content</li> <li>g. Math modeling content</li> <li>h. High school conceptual category summaries and fluency in mathematics</li> <li>i. Math proficiency content</li> </ul>

			<p>j. Grade level Kentucky Mathematics Academic Standards (KMAS)</p> <p>k. Close of meeting</p> <p>Motion to approve agenda – Beverly Rutledge  Motion second- Jeanie Reed  All members approved.</p>
9:04 am	Review of Group Norms	Krista Hall	<ul style="list-style-type: none"> <li>• Keep professional learning in mathematics as the primary driver of the experience.</li> <li>• Participate thoughtfully.</li> <li>• Be open to new ways of thinking.</li> <li>• Maintain a sense of humor.</li> <li>• Be respectful of others. <ul style="list-style-type: none"> <li>○ Seek to understand one another's views and values.</li> <li>○ Maintain a positive orientation &amp; presume positive intentions.</li> </ul> </li> </ul>
9:10 am	Review/feedback for Equity and Access in Mathematics front matter with partners	Krista Hall	Members worked with partners to provide feedback to Equity and Access in Mathematics front matter within the google document as comments.
9:21 am	Coherence and Vertical alignment	Erin Chavez	<p>The group was divided into grade bands (K-8 and High School) and discussed titles to sections, resources to use, vertical alignment parameters. Parameters charted by teams.</p> <p>K-8 Team:  High School Team:</p>
10:00 am	Glossary	Teresa Emmert/ Renee' Yates	<p>Grade Band groups developed parameters for contents of glossary.</p> <p>Chart Notes:</p> <ul style="list-style-type: none"> <li>• K-8 highlight 1<sup>st</sup> time (only once in standard)</li> <li>• HS Highlight 1<sup>st</sup> time in domain.</li> <li>• Resources – Kansas, Pennsylvania, Illustrative Mathematics – open up resources, other open resources</li> <li>• Example/Pic/Etc. Move to it's own column</li> <li>• Should always be a definition and not just example</li> <li>• Do not use Wikipedia</li> <li>• Clarity of images important</li> <li>• Forms of words – list words but use same definition</li> </ul>

			<ul style="list-style-type: none"> <li>If word/phrase is obvious and is hard to find definition, delete. Less is more example (non)</li> </ul>
11:07 am	Revisit standards cards left from yesterday	Krista Hall	Grade level Kentucky Mathematics Academic Standards (KMAS): The group worked in groups from yesterday to finish the domain card sort from yesterday.
11:30 am	Organization of Standards feedback	Krista Hal	Partners provided feedback on the organization of standards (front matter).
12:01 pm	Lunch/Break		
1:00 pm	How to read the K-8 Standards for Mathematical Content and Standards for Mathematical Practice	Krista Hall	Partners provided feedback on the How to Read the K-8 Standards for Mathematical Content and Standards for Mathematical Practice (front matter) in the google file.
1:15pm	Clarifications/Illustrations review/revisions	Krista Hall	<p>Grade band groups reviewed and revised Clarifications/Illustrations looking for:</p> <ul style="list-style-type: none"> <li>Clarity of misconceptions around the meaning of the standards</li> </ul>
4:15 pm	Standards for Mathematical Practices Structure Feedback	Krista Hall	Members reviewed and provided feedback on structure, language, clarity on the Standards for Mathematical Practices in a google document.
4:35 pm	Feedback on Doing Mathematics/Modeling Cycle and Standards for mathematical practices	Krista Hall	<p>Members reviewed and provided feedback on front matter on google form</p> <ol style="list-style-type: none"> <li>Math modeling content</li> <li>High school conceptual category summaries and fluency in mathematics</li> <li>Math proficiency content</li> </ol>
4:58 pm	Close of Meeting	Kyle Lee	<p>Motion to Adjourn- Dan McGee</p> <p>Motion Seconded- Forrest Spillman</p> <p>All members approved.</p>